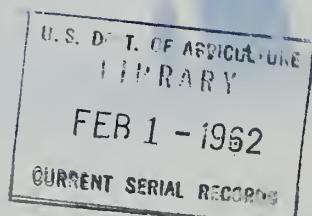
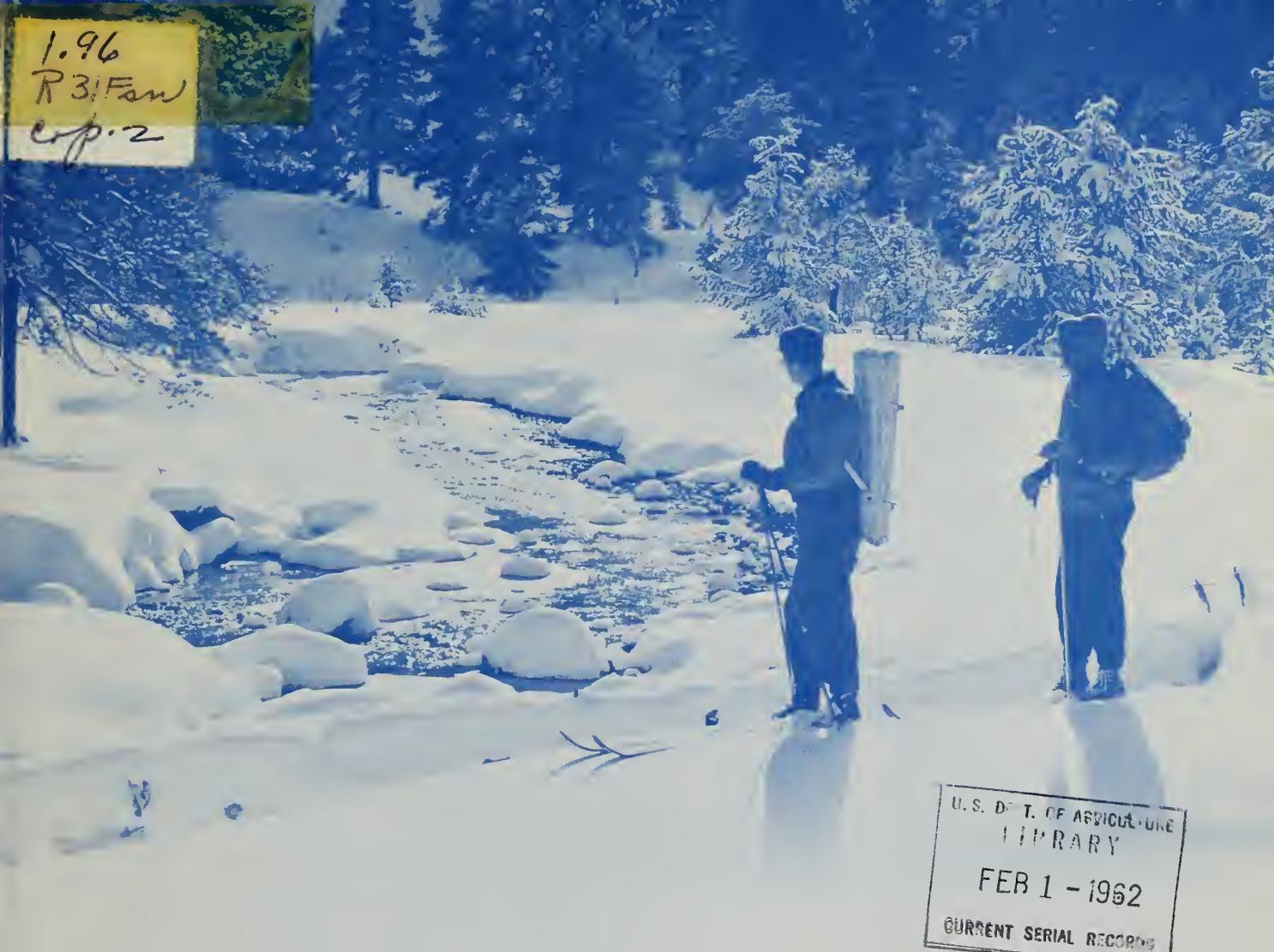


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Do not assume content reflects current scientific knowledge, policies, or practices.

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WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
NEVADA

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE.
and

NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above
in cooperation with the Federal, State and private organizations listed
on the last page of this report.

AS OF
JAN. 1, 1962

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Cooperative Snow Survey and Water Supply Forecast Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
COLORADO AND STATE OF UTAH			
—	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA	MONTHLY (JAN.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
UPPER MISSOURI AND STATE	MONTHLY (FEB.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
OF MONTANA			
WEST-WIOE	OCT. 1, APR. 1, MAY 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USEPS ASS'N. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (FEB.-MAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

Copies of these various reports may be secured from:

Head, Water Supply Forecasting Section
Soil Conservation Service
P.O. Box 4170, Portland 8, Oregon

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANDS AND FORESTS, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
NEVADA

Report prepared by

MANES BARTON

and

ROY E. MALSOR, JR.

SOIL CONSERVATION SERVICE
1479 WELLS AVENUE.....RENO, NEVADA

JANUARY 8, 1962

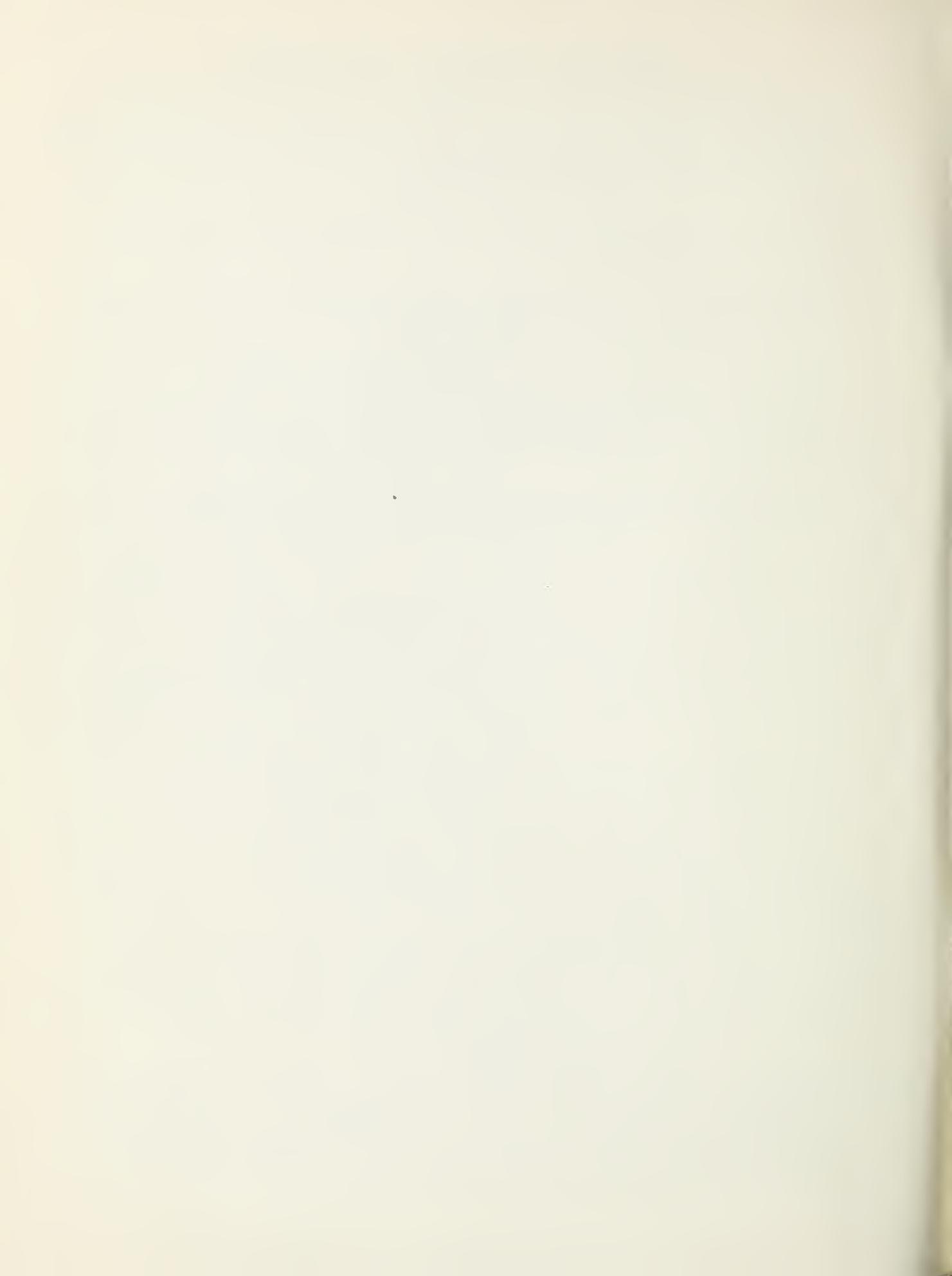
Issued by

CHARLES W. CLEARY, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
RENO, NEVADA

HUGH A. SHAMBERGER

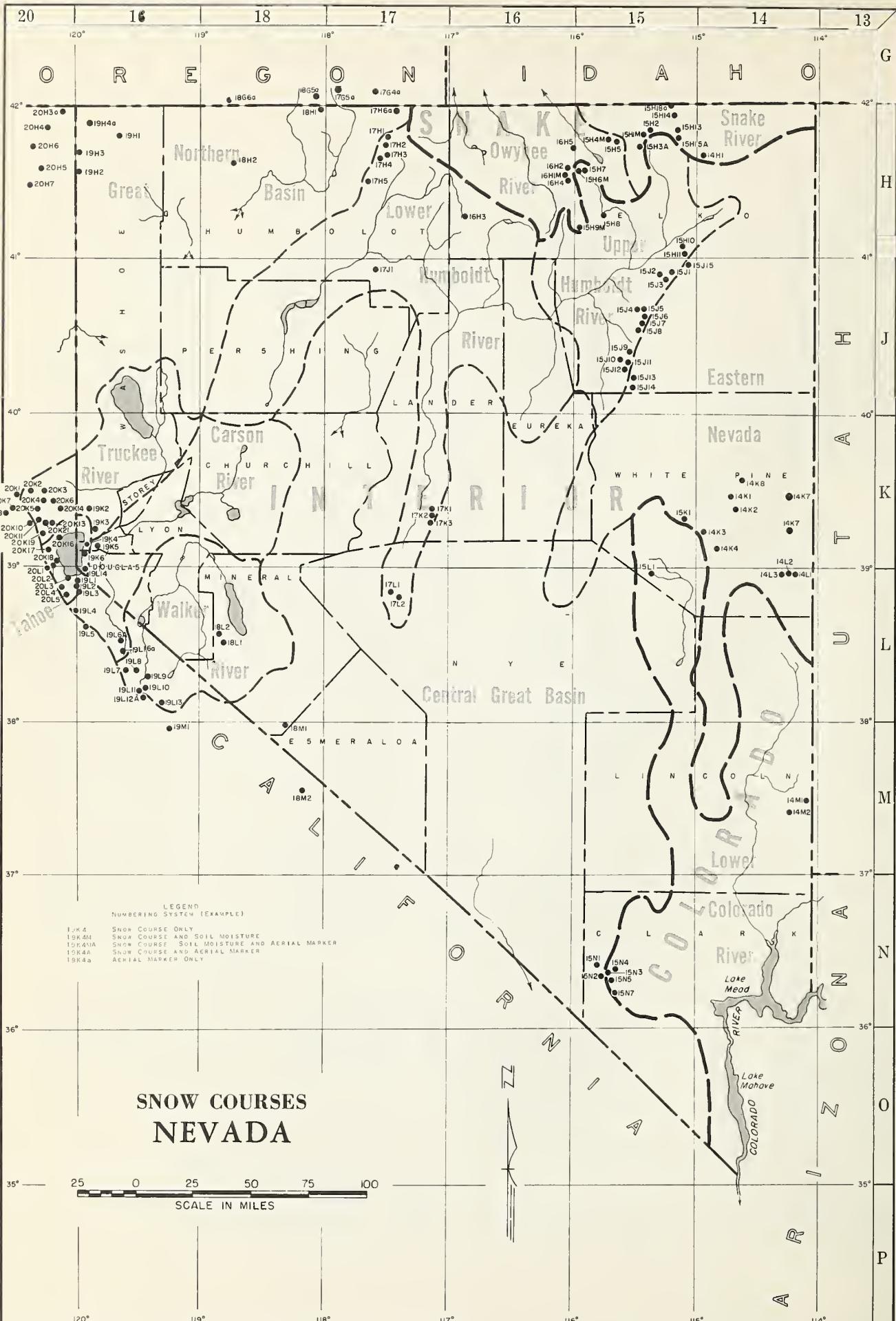
DIRECTOR
DEPARTMENT OF CONSERVATION AND
NATURAL RESOURCES
CARSON CITY, NEVADA



INDEX TO NEVADA SNOW COURSES

(By Basins)

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.							
SNAKE RIVER BASIN																		
SNAKE RIVER																		
15H1MA	BEAR CREEK	31	46N	58E	7800	19H1	BALO MOUNTAIN	17	45N	21E	6720							
15G4M*	BIG BENO	30	45N	56E	6700	20H5	BARBER CREEK	23	39N	16E	6500							
15H2	FOX CREEK	33	46N	58E	6800	20H6	CEDAR PASS	12	43N	14E	7100							
15H13	GOAT CREEK	31	46N	60E	8800	1BH1	OISASTER PEAK	8	47N	34E	6500							
15H5*	GOLO CREEK	31	45N	56E	6600	20H3a	OISNAL SWAMP (CAL.)	31	48N	22E	7000							
15H15A	HUMMINGBIRD SPRINGS	6	45N	60E	8945	20H7	EAGLE PEAK	35	40N	15E	8300							
14H1	JAKES CREEK	6	42N	62E	7000	19H3	49-MTN	7	42N	19E	6000							
15H14	POLE CREEK RANGER STATION	13	46N	59E	8330	19H2	HAYS CANYON	1	39N	18E	6400							
15H1Ba	REO POINT	15	47N	61E	7940	18H2	LEONARD CREEK	13	42N	28E	5900							
15H3A	76 CREEK	6	44N	58E	7100	19H4a	LITTLE BALLY MTN	B	45N	19E	6000							
OWYHEE RIVER																		
15H4M	BIG BENO	30	45N	56E	6700	17G5a	OREGON CANYON (OREG.)	9	40S	40E	7240							
17H2*	BUCKSKIN, LOWER	25	45N	39E	6700	17H6a	OUINN RIDGE	9	47N	41E	6300							
17H1*	BUCKSKIN, UPPER	11	45N	39E	7200	20H4	RESERVATION CREEK	12	46N	15E	5900							
15H7*	FRY CANYON	31	43N	54E	6700	18G5a*	TROUT CREEK (OREG.)	10	41S	38E	7800							
15H5	GOLD CREEK	31	45N	56E	6600	LAKE TAHOE												
17H4*	GRANITE PEAK	22	44N	39E	7800	19L14	OAGGETTS PASS	19	13N	19E	7350							
16H1M	JACK CREEK, LOWER	1B	42N	53E	6800	20L5	ECHO SUMMIT (CAL.)	6	11N	18E	7500							
16H2	JACK CREEK, UPPER	9	42N	53E	7250	19L2	FREEL BENCH (CAL.)	36	12N	18E	7300							
16H4	JACKS PEAK	2B	42N	53E	8420	19K6	GLENBROOK #2	13	14N	18E	6900							
16H5	LAUREL ORAW	20	45N	53E	6700	19L3	HAGANS MEADOW (CAL.)	36	12N	18E	8000							
17G4a	LOUSE CANYON (OREG.)	27	40S	44E	6440	20L4	LAKE LUCILLE (CAL.)	28	12N	17E	8400							
17H3*	MARTIN CREEK	1B	44N	40E	6700	19K4	MARLETTE LAKE	13	15N	18E	8000							
15H6M*	ROOEO FLAT	36	43N	53E	6800	19K2*	MT. ROSE	7	17N	19E	9000							
15H9M	TAYLOR CANYON	35	39N	53E	6200	20L3	RICHAROSON #2 (CAL.)	6	12N	18E	6500							
15H8*	TREMEWAN RANCH	9	39N	55E	5700	20L1	RUBICON #1 (CAL.)	6	13N	17E	8100							
INTERIOR																		
UPPER HUMBOLOT RIVER																		
15H1MA*	BEAR CREEK	31	46N	58E	7800	20K14	BOCA #2 (CAL.)	28	18N	17E	5900							
15H4M*	BIG BENO	30	45N	56E	6700	20K11	DONNER LAKE #1 (CAL.)	14	17N	15E	5950							
15J12	CORRAL CANYON	27	28N	57E	8500	20K21	DONNER PARK #2 (CAL.)	3	16N	16E	6000							
15J1	DORSEY BASIN	28	35N	60E	8100	20K10*	DONNER SUMMIT (CAL.)	25	17N	14E	6900							
15J3	ORY CREEK	5	34N	60E	6500	20K7*	FORDYCE LAKE (CAL.)	34	1BN	13E	6500							
15H2*	FOX CREEK	33	46N	58E	6800	20K8	FURNACE FLAT (CAL.)	10	17N	13E	6600							
15H7	FRY CANYON	31	43N	54E	6700	20K4	INDEPENDENCE CAMP (CAL.)	34	19N	15E	7000							
15H5*	GOLO CREEK	31	45N	56E	6600	20K3	INDEPENDENCE CREEK (CAL.)	14	19N	15E	6500							
15J9	GREEN MOUNTAIN	23	29N	57E	8000	20K5	INDEPENDENCE LAKE (CAL.)	9	1BN	15E	8450							
15J10	HARRISON PASS #1	9	28N	57E	6600	19K3	LITTLE VALLEY	17	16N	19E	6300							
15J11	HARRISON PASS #2	16	28N	57E	7400	19K2	MT. ROSE	7	17N	19E	9000							
16H1M*	JACK CREEK, LOWER	1B	42N	53E	6800	20K6	SAGE HEN CREEK (CAL.)	7	1BN	16E	6500							
16H2*	JACK CREEK, UPPER	9	42N	53E	7250	20K19	SQUAW VALLEY #2 (CAL.)	6	15N	16E	7500							
16H4*	JACKS PEAK	2B	42N	53E	8420	20K16*	TAHOE CITY (CAL.)	6	15N	17E	6250							
15J4	LAMOILLE #1	15	32N	58E	7100	20K13	TRUCKEE #2 (CAL.)	22	17N	16E	6400							
15J5	LAMOILLE #2	14	32N	58E	7300	20K17*	WARD CREEK (CAL.)	21	15N	16E	7000							
15J7	LAMOILLE #4	19	32N	59E	8000	20K2	WEBBER LAKE (CAL.)	20	19N	14E	7000							
15H6M	ROOEO FLAT	31	32N	59E	8700	20K1*	WEBBER PEAK (CAL.)	30	19N	14E	8000							
15J2	RYAN RANCH	36	43N	53E	6800	CARSON RIVER												
15J3A*	76 CREEK	1	34N	59E	5800	19L5	BLUE LAKES (CAL.)	30	9N	19E	8000							
15H9M*	TAYLOR CANYON	35	39N	53E	6200	19L4	CARSON PASS, UPPER (CAL.)	22	10N	18E	8600							
15H8	TREMEWAN RANCH	9	39N	55E	5700	19K5	CLEAR CREEK	6	14N	19E	7300							
15H10	TROUT CREEK, LOWER	2B	37N	61E	6900	19L6A	POISON FLAT (CAL.)	25	BN	21E	7900							
15H11	TROUT CREEK, UPPER	4	36N	61E	8500	19L16a	UPPER FISH VALLEY (CAL.)	1B	7N	22E	8050							
LOWER HUMBOLOT RIVER																		
17K1	BIG CREEK CAMP GROUND	10	17N	43E	6600	19L11	BUCKEYE FORKS (CAL.)	20	4N	23E	B500							
17K2	BIG CREEK MINE	23	17N	43E	7600	19L10	BUCKEYE ROUGHS (CAL.)	15	4N	23E	7900							
17K3	BIG CREEK, UPPER	26	17N	43E	8000	19L12A	CENTER MOUNTAIN (CAL.)	4	3N	23E	9400							
17H2	BUCKSKIN, LOWER	25	45N	39E	6700	19L1	LAPON MEADOW	36	BN	28E	9000							
17H1	BUCKSKIN, UPPER	11	45N	39E	7200	19L2	LEAVITT MEADOWS (CAL.)	4	5N	22E	7200							
17J2	GOLCONA #2	22	35N	39E	6000	19L7	MT. GRANT	23	BN	28E	9000							
17H4	GRANITE PEAK	22	44N	39E	7800	19M1*	SONORA PASS (CAL.)	1	5N	21E	B800							
17H5	LAMANCE CREEK	13	42N	38E	6000	19L13	TIOGA PASS (CAL.)	30	IN	25E	9900							
17L1	LOWER CORRAL	12	11N	40E	7500	19L9	VIRGINIA LAKES (CAL.)	5	2N	25E	9500							
17H3	MARTIN CREEK	18	44N	40E	6700	19L1	WILLOW FLAT (CAL.)	21	5N	23E	B250							
16H3	MIOAS	18	39N	46E	7200	COLORADO												
17L2	UPPER CORRAL	20	11N	41E	8500	LOWER COLORADO RIVER												
EASTERN NEVAOA																		
14L1	BAKER #1	29	13N	69E	7950	15N5	KYLE CANYON	26	19S	56E	B200							
14L2	BAKER #2	30	13N	69E	8950	15N4	LEE CANYON #1	10	19S	56E	B300							
14L3	BAKER #3	25	13N	68E	9250	15N3	LEE CANYON #2	9	19S	56E	9000							
14K2	BERRY CREEK	26	17N	65E	9100	14M1	MATHEW CANYON	11	5S	70E	6000							
14K1	BIRO CREEK	34	19N	65E	7500	14M2	PINE CANYON	11	6S	69E	6200							
15J13	CAVE CREEK	25	27N	57E	7500	15N7	RAINBOW CANYON #2	6	20S	57E	B100							
15J14	HAGER CANYON	34	27N	57E	8000	15L1	WHITE RIVER #1	31	13N	59E	7400							
15J15	HOLE-IN-MTN.	6	35N	61E	7900	LEGEND NUMBERING SYSTEM (EXAMPLE)												
14K8	KALAMAZOO CREEK	34	20N	65E	7400	19K4	SNOW COURSE ONLY											
14K3	MURRAY SUMMIT	25	16N	62E	7250	19K4M	SNOW COURSE AND SOIL MOISTURE											
15K1	ROBINSON SUMMIT	34	18N	61E	7600	19K4MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER											
14K7	SILVER CREEK #2	30	16N	69E	8000	19K4A	SNOW COURSE AND AERIAL MARKER											
14K5	WARO MOUNTAIN #2	25	15N	62E	7875	19K4Ka	AERIAL MARKER ONLY											
15L1*	WHITE RIVER #1	31	13N	59E	7400	* LOCATED ON ADJACENT WATERSHED												
CENTRAL GREAT BASIN																		
18M2	CAMPITO MTN	19	55	35E	10200													
15N2	CLARK CANYON	B	195	56E	9000													
1BG6a*	OENO CREEK (OREG.)	14	41S	34E	6000													
14M1	MONTGOMERY PASS	4	1N	33E	7100													
15N1	TROUGH SPRINGS	23	1BS	55E	8500													



SNOW COURSES NEVADA

WATER SUPPLY OUTLOOK
FOR NEVADA

January 1, 1962

* * * * *

* Nevada's spring-summer water supply outlook is rated *

* extremely poor for east slope Sierra streams and fair *

* for Owyhee and Upper Humboldt streams. Snow stored *

* water in the Sierras is only 35-50 percent of average; *

* and 110 percent of the January 1 average in the Upper *

* Humboldt and Owyhee watersheds. Reservoirs hold only *

* 6 percent of average and 3 percent of capacity. *

* * * * *

Nevada water users served from streams heading in the Sierra have little cause for optimism. Water content of snow at key snow courses in the Lake Tahoe-Truckee, Carson and Walker watersheds is only 35-50 percent of the January 1 average. Since the November snow storms there has been little appreciable snowfall. Clear weather, wind and warm temperatures in December removed much of the November snowpack.

Lake Tahoe showed a slight improvement during late November and early December. Although it remained below its natural rim of 6223.0 feet above sea level, it rose to 6222.8 on December 2-4. Since then evaporation has lowered it to 6222.7 on December 31, and it will continue to fall until precipitation gains exceed evaporation losses. Reservoir storage has improved slightly since October 1 in Topaz, Bridgeport, Lahontan and Ryepatch. However, these reservoirs are much below normal for this time of year. In aggregate these four reservoirs plus Lake Tahoe and Boca now contain 3 percent of their usable capacity and are currently 6 percent of their January 1 average.

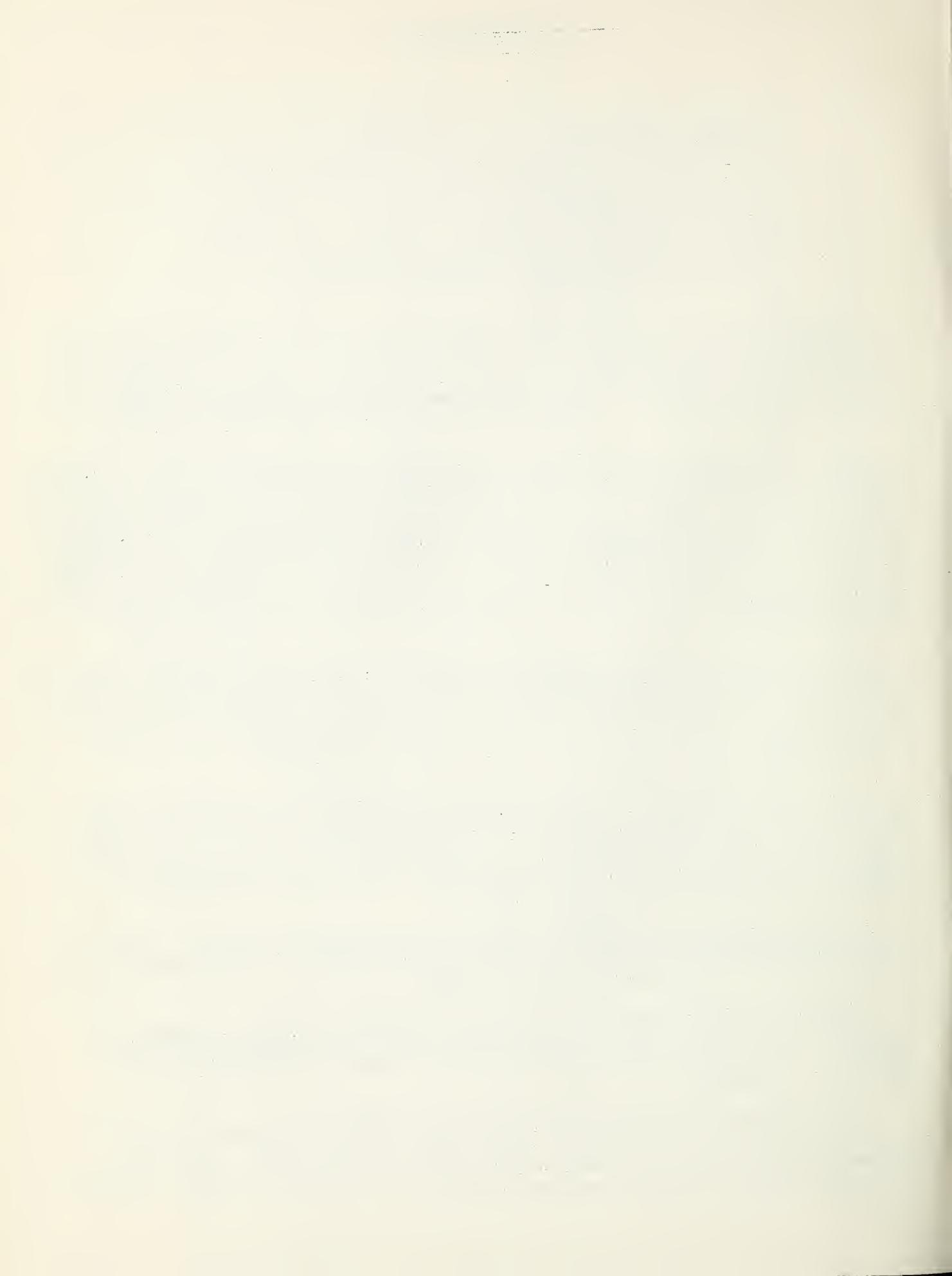
Snow surveys in the Sierra indicate a mountain snowpack which is less than last year this date and only 35-50 percent of average. Usually by January 1, 40-50 percent of the total winter snowpack should be on the ground; this year only about 20 to 25 percent is on the ground. In order to have a normal February 1 snowpack, January snowfall will have to be at least twice the usual amount.

In northeast Nevada the mountain snowpack is much better than the past two years for this date and is currently 110 percent of average. Due to the residual effects of the past several drought years on soil moisture, baseflow and ground water status, only fair spring-summer runoff can be expected in the Upper Humboldt-Owyhee streams should mountain snow water content continue at this normal to slightly above normal level through April 1.

Irrigation season streamflow forecasts are not issued on January 1. More extensive snow surveys will be made on February 1, at which time streamflow forecasts will be issued for a few representative streams.

Mountain soil conditions are rated fair throughout the State. An appreciable amount of snowmelt water will be required to bring these soils to full moisture capacity. In turn this will reduce the amount of snowmelt water for producing April-July streamflow.

As of this date the coming summer irrigation water supply outlook appears to be similar to that of past three years. Water users should continue to exercise extreme conservatism on any agricultural decisions in which water supply this coming irrigation season is a factor until the pattern of this winter's mountain snowpack becomes better defined.



NEVADA

STATUS OF RESERVOIR STORAGE

January 1, 1962

Basin and Stream	Reservoir	Usable Capacity (1000 AF)	Usable Storage 1000's A. F.			January 1 15-Yr. Ave. 1943-57	Sept. 30, 1961 1000's A. F.	Change since Sept. 30, 1961
			1962	1961	1960			
Lower Humboldt	Rye Patch	179	5	7	20	94	/ 2	
Colorado	Mohave	1,810	1,681	1,620	1,657	1,506*	/ 331	
Colorado	Mead	27,217	18,023	19,294	19,534	18,140	/ 95	
Tahoe	Tahoe	732	0	106	246	434	- 32	
Truckee	Boca	41	1	9	10	15	- 2	
Carson	Lahontan	286	26	58	63	176	/ 13	
West Walker	Topaz	59	7	6	8	30	/ 5	
East Walker	Bridgeport	42	10	7	11	26	/ 6	

* 1951-57

January 1, 1962

NEVADA SNOW SURVEYS

Drainage Basin and Snow Course	Elev.	Date of Survey	SNOW COVER MEASUREMENTS		Past Record				Water Content 15-Yr. Average 1943-57
			1962	Snow Depth (Inches)	Water Content (Inches)	1961	1960	Jan. 1	
								Apr. 1	
<u>SNAKE RIVER</u>									
Bear Creek	8145	12/29	31	8.1 ^a	6.2	4.7	7.1*	21.5*	
Hummingbird Springs	8870	12/29	32	8.4 ^a	3.5	4.0	7.8*	22.8*	
Pole Creek	8330	12/28	29	7.6	6.6	3.7	6.7*	20.5*	
Red Point	7940	12/29	12	3.1 ^a	3.7	-	-	-	
<u>OWYHEE RIVER</u>									
Big Bend	6700	12/28	14	3.3	2.5	1.4	3.3*	10.5	
Gold Creek	6600	12/28	10	2.5	1.2	T	1.9*	6.0	
Jack Creek, Lower	6800	12/29	8	1.8	1.5	1.0	1.1*	2.5	
Jack Creek, Upper	7250	12/29	20	4.8	3.0	1.8	3.5*	10.9	
Taylor Canyon	6200	12/29	8	1.8	0.8	1.2	1.8*	3.5	
<u>HUMBOLDT RIVER</u>									
Fry Canyon	6700	12/28	14	3.5	2.3	1.7	3.1*	9.2	
Rodeo Flat	6800	12/28	9	2.5	2.4	1.6	3.3*	8.7	
Tremewan Ranch	5700	12/28	T	T	T	T	0.7*	0.8	
<u>LAKE TAHOE-TRUCKEE RIVER</u>									
Freel Bench	7300	12/28	9	2.8	-	-	-	11.4*	
Glenbrook #2	6900	1/3	8	2.2	4.0	-	-	14.5	
Hagans Meadows	8000	12/28	13	4.1	-	-	-	19.0*	
Richardsons #2	6500	1/3	15	4.4	-	-	-	17.8*	
Tahoe City	6250	12/29	5	2.2	-	-	-	11.4	
Upper Truckee	6400	12/28	7	2.8	-	-	-	7.4*	
Ward Creek	7000	12/29	27	10.0	-	-	-	48.2*	
<u>CARSON-WALKER RIVERS</u>									
Sonora Pass	8800	12/27	19	4.6	8.4	-	-	24.1	
Virginia Lakes	9500	12/27	15	3.7	-	-	-	18.0*	

* Adjusted 15 year average

a Aerial snow depth gage reading; water content estimated

Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

Soil Conservation Service
Forest Service
Geological Survey
Bureau of Reclamation
Fish and Wildlife Service
Army
Navy
Weather Bureau
Agricultural Research Service

STATE

Nevada Department of Conservation & Natural Resources
Division of Water Resources
Nevada State Forester-Firewarden
Nevada Cooperative Snow Surveys
Colorado River Commission of Nevada
California Cooperative Snow Surveys
California Department of Water Resources
Oregon Cooperative Snow Surveys
Nevada Association of Soil Conservation Districts
University of Nevada

PRIVATE

Walker River Irrigation District
Amalgamated Sugar Company
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Virginia City Water Company
Kennecott Copper Corporation
Squaw Valley Development Company
Pacific Gas & Electric Company
Nevada Irrigation District
Sierra Pacific Power Company
Washoe County Water Conservation District
Truckee-Carson Irrigation District
Pershing County Water Conservation District

Other organizations and individuals furnish valuable
information for the snow survey reports. Their
Cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
1479 WELLS AVENUE
RENO, NEVADA

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**FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS**

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*“The Conservation of Water begins
with the Snow Survey”*